#### RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:  $\frac{10/591,628}{1800}$ Source:  $\frac{10/591,628}{1800}$ Date Processed by STIC:  $\frac{9/13/06}{1800}$ 

# ENTERED



**IFWP** 

RAW SEQUENCE LISTING DATE: 09/13/2006
PATENT APPLICATION: US/10/591,628 TIME: 11:11:47

Input Set: A:\A0852.70000US01 seq.txt
Output Set: N:\CRF4\09132006\J591628.raw

```
3 <110> APPLICANT: Adra, Chaker
      5 <120> TITLE OF INVENTION: GRANULOCYTE SUBTYPE-SELECTIVE RECEPTORS AND ION CHANNELS AND
USES
              THEREOF
      8 <130> FILE REFERENCE: A0852.70000WO00
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/591,628
     11 <141> CURRENT FILING DATE: 2006-09-05
     13 <150> PRIOR APPLICATION NUMBER: PCT/US2005/007519
     14 <151> PRIOR FILING DATE: 2005-03-03
     16 <150> PRIOR APPLICATION NUMBER: 60/549,865
     17 <151> PRIOR FILING DATE: 2004-03-03
     19 <160> NUMBER OF SEQ ID NOS: 31
     21 <170> SOFTWARE: PatentIn version 3.3
     23 <210> SEQ ID NO: 1
     24 <211> LENGTH: 557
     25 <212> TYPE: DNA
     26 <213> ORGANISM: Homo sapiens
     28 <400> SEQUENCE: 1
                                                                               60
     29 ttttttttt tgtggaaaga tgataggttt atagtgactc aaaatatttt agaaaaattt
     31 ctqtaqtqtc aaqttctttc aaacttaaaa ttttaacccc agaggatttt cgctgaataa
                                                                              120
     33 atgagaattg getetattte ttetaettet ggatageeeg agtaaaaata etaataattt
                                                                              180
                                                                              240
     35 ctagatttta gtggggaact acaattatta ggacccatgg atattgctgc agttcaaata
     37 caatacagta attacaaaat atagaccatc tctttacaaa tacaaattat agtatattac
                                                                              300
     39 aaqtcatqta cagtaaatct ataattttaa acaaactagt gtatctaagt ttacctggtt
                                                                              360
     41 gcgagtgcat tattattcca gtttacagtt gcccttagcg tgacagtcag aaaccgacca
                                                                              420
     43 teggagtgat attetettat gtaaaetgge gteaeateae agaaaaeett atttatgagg
                                                                              480
     45 teccattgee etegeaataa teaetggtag etgggttetg aettaettae acacegtatt
                                                                              540
     47 tcagaacagc taaacag
                                                                              557
     50 <210> SEQ ID NO: 2
     51 <211> LENGTH: 1613
     52 <212> TYPE: DNA
     53 <213 > ORGANISM: Homo sapiens
     55 <220> FEATURE:
     56 <221> NAME/KEY: CDS
     57 <222> LOCATION: (71)..(1198)
     59 <400> SEQUENCE: 2
     60 cqqqttctac ctgccttgaa gaagacacct gacctgcgga gtgagtgacc agtgtttcca
                                                                               60
                                                                              109
     62 gagectggea atg gat gee att eac ate gge atg tee age ace eec etg
                   Met Asp Ala Ile His Ile Gly Met Ser Ser Thr Pro Leu
     64
                                                                              157
     66 gtg aag cac act gct ggg gct ggg ctc aag gcc aac aga ccc cgc gtc
     67 Val Lys His Thr Ala Gly Ala Gly Leu Lys Ala Asn Arg Pro Arg Val
                                20
                                                                              205
     70 atg tcc aag agt ggg cac agc aac gtg aga att gac aaa gtg gat ggc
```

Input Set : A:\A0852.70000US01 seq.txt
Output Set: N:\CRF4\09132006\J591628.raw

71 Met Ser Lys Ser Gly His Ser Asn Val Arg Ile Asp Lys Val Asp 72 30 35 40	Gly 45
74 ata tac cta ctc tac ctg caa gac ctg tgg acc aca gtt atc gac	atg 253
75 Ile Tyr Leu Leu Tyr Leu Gln Asp Leu Trp Thr Thr Val Ile Asp	Met
76 50 55 60	
78 aag tgg aga tac aaa ctc acc ctg ttc gct gcc act ttt gtg atg	
79 Lys Trp Arg Tyr Lys Leu Thr Leu Phe Ala Ala Thr Phe Val Met	Thr
80 65 70 75	
82 tgg ttc ctt ttt gga gtc atc tac tat gcc atc gcg ttt att cat	
83 Trp Phe Leu Phe Gly Val Ile Tyr Tyr Ala Ile Ala Phe Ile His	Gly
84 80 85 90	207
86 gac tta gaa ccc gat gag ccc att tca aat cat acc ccc tgc atc	<del>-</del>
87 Asp Leu Glu Pro Asp Glu Pro Ile Ser Asn His Thr Pro Cys Ile	Met
88 95 100 105	445
90 aaa gtg gac tet ete aet ggg geg ttt ete ttt tee etg gaa tee	
91 Lys Val Asp Ser Leu Thr Gly Ala Phe Leu Phe Ser Leu Glu Ser	
92 110 115 120	125
94 aca acc att ggc tat gga gtc cgt tcc atc aca gag gaa tgt cct	
95 Thr Thr Ile Gly Tyr Gly Val Arg Ser Ile Thr Glu Glu Cys Pro	
98 gcc atc ttc ctg ttg gtt gct cag ttg gtc atc acg acc ttg att	
99 Ala Ile Phe Leu Leu Val Ala Gln Leu Val Ile Thr Thr Leu Ile	
100 145 150 155	- OIU
102 atc ttc atc acc gga acc ttc ctg gcc aaa atc gcc aga ccc aa	a aaq 589
103 Ile Phe Ile Thr Gly Thr Phe Leu Ala Lys Ile Ala Arg Pro Ly	
104 160 165 170	, -
106 cgg gct gag acc atc aag ttc agc cac tgt gca gtc atc acc aa	g cag 637
107 Arg Ala Glu Thr Ile Lys Phe Ser His Cys Ala Val Ile Thr Ly	
108 175 180 185	
110 aat ggg aag ctg tgc ttg gtg att cag gta gcc aat atg agg aa	g agc 685
111 Asn Gly Lys Leu Cys Leu Val Ile Gln Val Ala Asn Met Arg Ly	
112 190 195 200	205
114 ctc ttg att cag tgc cag ctc tct ggc aag ctc ctg cag acc ca	
115 Leu Leu Ile Gln Cys Gln Leu Ser Gly Lys Leu Leu Gln Thr Hi	s Val
116 210 215 22	0
118 acc aag gag ggg gag cgg att ctc ctc aac caa gcc act gtc aa	
119 Thr Lys Glu Gly Glu Arg Ile Leu Leu Asn Gln Ala Thr Val Ly	s Phe
120 225 230 235	
122 cac gtg gac tec tec tet gag age eec tte etc att etg eec at	
123 His Val Asp Ser Ser Ser Glu Ser Pro Phe Leu Ile Leu Pro Me	t Thr
124 240 245 250	
125 ttc tac cat gtg ctg gat gag acg agc ccc ctg aga gac ctc ac	
126 Phe Tyr His Val Leu Asp Glu Thr Ser Pro Leu Arg Asp Leu Th	
127 255 260 265	r Pro
127 255 260 265 129 caa aac cta aag gag aag gag ttt gag ctt gtg gtc ctc ctc aa	r Pro t gcc 925
127 255 260 265 129 caa aac cta aag gag aag gag ttt gag ctt gtg gtc ctc ctc aa 130 Gln Asn Leu Lys Glu Lys Glu Phe Glu Leu Val Val Leu Leu As	r Pro t gcc 925 n Ala
127 255 260 265  129 caa aac cta aag gag aag gag ttt gag ctt gtg gtc ctc ctc aac 130 Gln Asn Leu Lys Glu Lys Glu Phe Glu Leu Val Val Leu Leu As 131 270 275 280	t gcc 925 n Ala 285
127 255 260 265 129 caa aac cta aag gag aag gag ttt gag ctt gtg gtc ctc ctc aa 130 Gln Asn Leu Lys Glu Lys Glu Phe Glu Leu Val Val Leu Leu As	t gcc 925 n Ala 285 t atc 973

Input Set : A:\A0852.70000US01 seq.txt
Output Set: N:\CRF4\09132006\J591628.raw

					290					295					300		
137	cca	gag	gaa	atc	tac	tgg	ggt	ttt	gag	ttt	gtg	cct	gtg	gta	tct	ctc	1021
															Ser		
139				305	_		_		310					315			
141	tcc	aaa	aat	gga	aaa	tat	gtg	gct	gat	ttc	agt	cag	ttt	gaa	cag	att	1069
142	Ser	Lys	Asn	Gly	Lys	Tyr	Val	Ala	Asp	Phe	Ser	Gln	Phe	Glu	Gln	Ile	
143			320					325					330				
145	cgg	aaa	agc	cca	gat	tgc	aca	ttt	tac	tgt	gca	gat	tct	gag	aaa	cag	1117
146	Arg	Lys	Ser	Pro	Asp	Cys	Thr	Phe	Tyr	Cys	Ala	Asp	Ser	Glu	Lys	Gln	
147		335					340					345					
															gaa		1165
150	Gln	Leu	Glu	Glu	Lys	Tyr	Arg	Gln	Glu	Asp		Arg	Glu	Arg	Glu		
151	350		•			355					360					365	
							_	_		_	tga	tcad	caggg	ggc 9	gccat	ccagg	1218
	Arg	Thr	Leu	Leu		Gln	Gln	Ser	Asn								
155					370					375							
			_	_	_			_								gtgaa	1278
	_	-	-	-	_					-						tttcc	1338
	-	_	_				_									gcttcg	1398
	-	-						-	_							gagctt	1458
				_				_								gacat	1518
							_	_		_	gtaa	taca	aagat	tat	ctati	taacc	1578
		gacct				ag ti	cgaat	tgt	g gti	ca							1613
		0> SI															
173					/ 5												
174	<212	2> T	PE:	PRT			ni one	-									
174 175	<213 <213	2> T 3> O	PE:	PRT SM:	Homo	sap	piens	5									
174 175 177	<213 <213 <400	2> T: 3> O! 0> S!	YPE : RGAN ] EQUE!	PRT SM: ICE:	Homo	-			Ser	Ser	Thr	Pro	Leu	Val	Lvs	His	
174 175 177 179	<213 <213 <400 Met	2> T: 3> O! 0> S!	YPE : RGAN ] EQUE!	PRT SM: ICE:	Homo 3 His	-			Ser		Thr	Pro	Leu	Val	Lys	His	
174 175 177 179 180	<213 <213 <400 Met	2> T 3> O 0> S Asp	PE: RGANI EQUEN Ala	PRT (SM: ICE: Ile	Homo 3 His 5	Ile	Gly	Met		10					15		·
174 175 177 179 180 183	<213 <213 <400 Met 1 Thr	2> T 3> O 0> S Asp	PE: RGANI EQUEN Ala	PRT ISM: ICE: Ile Ala	Homo 3 His 5	Ile	Gly	Met		10							
174 175 177 179 180 183	<213 <213 <400 Met 1 Thr	2> TY 3> OF 0> SI Asp Ala	YPE: RGANI EQUEN Ala Gly	PRT ISM: ICE: Ile Ala 20	Homo 3 His 5 Gly	Ile Leu	Gly Lys	Met Ala	Asn 25	10 Arg	Pro	Arg	Val	Met 30	15 Ser	Lys	
174 175 177 179 180 183	<213 <213 <400 Met 1 Thr	2> TY 3> OF 0> SI Asp Ala	YPE: RGANI EQUEN Ala Gly	PRT ISM: ICE: Ile Ala 20	Homo 3 His 5 Gly	Ile Leu	Gly Lys	Met Ala	Asn 25	10 Arg	Pro	Arg	Val	Met 30	15	Lys	
174 175 177 179 180 183 184 187	<213 <213 <400 Met 1 Thr	2> TY 3> OF 0> SI Asp Ala Gly	YPE: RGANI EQUEN Ala Gly His 35	PRT ISM: ICE: Ile Ala 20 Ser	Homo 3 His 5 Gly Asn	Ile Leu Val	Gly Lys Arg	Met Ala Ile 40	Asn 25 Asp	10 Arg Lys	Pro Val	Arg Asp	Val Gly 45	Met 30 Ile	15 Ser	Lys Leu	
174 175 177 179 180 183 184 187	<213 <213 <400 Met 1 Thr	2> TY 3> OF 0> SI Asp Ala Gly	YPE: RGANI EQUEN Ala Gly His 35	PRT ISM: ICE: Ile Ala 20 Ser	Homo 3 His 5 Gly Asn	Ile Leu Val	Gly Lys Arg	Met Ala Ile 40	Asn 25 Asp	10 Arg Lys	Pro Val	Arg Asp	Val Gly 45	Met 30 Ile	15 Ser Tyr	Lys Leu	
174 175 177 179 180 183 184 187 188 191	<213 <400 Met 1 Thr Ser	2> TY 3> OI 0> SI Asp Ala Gly Tyr 50	YPE: RGANI EQUEN Ala Gly His 35 Leu	PRT ISM: ICE: Ile Ala 20 Ser Gln	Homo 3 His 5 Gly Asn	Ile Leu Val Leu	Gly Lys Arg Trp 55	Met Ala Ile 40 Thr	Asn 25 Asp Thr	10 Arg Lys Val	Pro Val Ile	Arg Asp Asp 60	Val Gly 45 Met	Met 30 Ile Lys	15 Ser Tyr	Lys Leu Arg	
174 175 177 179 180 183 184 187 188 191	<213 <400 Met 1 Thr Ser Leu Tyr	2> TY 3> OI 0> SI Asp Ala Gly Tyr 50	YPE: RGANI EQUEN Ala Gly His 35 Leu	PRT ISM: ICE: Ile Ala 20 Ser Gln	Homo 3 His 5 Gly Asn	Ile Leu Val Leu	Gly Lys Arg Trp 55	Met Ala Ile 40 Thr	Asn 25 Asp Thr	10 Arg Lys Val	Pro Val Ile	Arg Asp Asp 60	Val Gly 45 Met	Met 30 Ile Lys	15 Ser Tyr Trp	Lys Leu Arg	
174 175 177 179 180 183 184 187 188 191 192 195	<213 <400 Met 1 Thr Ser Leu Tyr 65	2> TY 3> OB 0> SI Asp Ala Gly Tyr 50 Lys	YPE: RGANI RGUEN Ala Gly His 35 Leu	PRT ISM: ICE: Ile Ala 20 Ser Gln	Homo 3 His 5 Gly Asn Asp	Ile Leu Val Leu Phe 70	Gly Lys Arg Trp 55 Ala	Met Ala Ile 40 Thr	Asn 25 Asp Thr	10 Arg Lys Val Phe	Pro Val Ile Val 75	Arg Asp Asp 60 Met	Val Gly 45 Met Thr	Met 30 Ile Lys Trp	15 Ser Tyr Trp	Lys Leu Arg Leu 80	
174 175 177 179 180 183 184 187 188 191 192 195 196 199 200	<213 <400 Met 1 Thr Ser Leu Tyr 65 Phe	2> TY 3> OF 0> SI Asp Ala Gly Tyr 50 Lys	YPE: RGANI RGANI EQUEN Ala Gly His 35 Leu Leu Val	PRT ISM: ICE: Ile Ala 20 Ser Gln Thr	Homo 3 His 5 Gly Asn Asp Leu Tyr	Ile Leu Val Leu Phe 70 Tyr	Gly Lys Arg Trp 55 Ala	Met Ala Ile 40 Thr Ala Ile	Asn 25 Asp Thr Thr	10 Arg Lys Val Phe Phe 90	Pro Val Ile Val 75 Ile	Arg Asp Asp 60 Met	Val Gly 45 Met Thr	Met 30 Ile Lys Trp	15 Ser Tyr Trp Phe Leu 95	Lys Leu Arg Leu 80 Glu	
174 175 177 179 180 183 184 187 188 191 192 195 196 199 200	<213 <400 Met 1 Thr Ser Leu Tyr 65 Phe	2> TY 3> OF 0> SI Asp Ala Gly Tyr 50 Lys	YPE: RGANI RGANI EQUEN Ala Gly His 35 Leu Leu Val	PRT ISM: ICE: Ile Ala 20 Ser Gln Thr	Homo 3 His 5 Gly Asn Asp Leu Tyr	Ile Leu Val Leu Phe 70 Tyr	Gly Lys Arg Trp 55 Ala	Met Ala Ile 40 Thr Ala Ile	Asn 25 Asp Thr Thr	10 Arg Lys Val Phe Phe 90	Pro Val Ile Val 75 Ile	Arg Asp Asp 60 Met	Val Gly 45 Met Thr	Met 30 Ile Lys Trp	15 Ser Tyr Trp Phe Leu	Lys Leu Arg Leu 80 Glu	
174 175 177 180 183 184 187 188 191 192 195 196 199 200 203 204	<21: <400 Met 1 Thr Ser Leu Tyr 65 Phe Pro	2> TY 3> OF 0> SF Asp Ala Gly Tyr 50 Lys Gly Asp	YPE: RGANI EQUEN Ala Gly His 35 Leu Leu Val	PRT ISM: ICE: Ile Ala 20 Ser Gln Thr Ile Pro 100	Homo 3 His 5 Gly Asn Asp Leu Tyr 85 Ile	Ile Leu Val Leu Phe 70 Tyr Ser	Gly Lys Arg Trp 55 Ala Ala Asn	Met Ala Ile 40 Thr Ala Ile His	Asn 25 Asp Thr Thr Ala Thr 105	10 Arg Lys Val Phe Phe 90 Pro	Pro Val Ile Val 75 Ile Cys	Arg Asp 60 Met His	Val Gly 45 Met Thr Gly Met	Met 30 Ile Lys Trp Asp	15 Ser Tyr Trp Phe Leu 95 Val	Lys Leu Arg Leu 80 Glu Asp	
174 175 177 180 183 184 187 188 191 192 195 196 199 200 203 204 207	<213 <400 Met 1 Thr Ser Leu Tyr 65 Phe Pro Ser	2> TY 3> OF 0> SF Asp Ala Gly Tyr 50 Lys Gly Asp	YPE: RGANI RGANI EQUEN Ala Gly His 35 Leu Leu Val Glu Thr	PRT ISM: ICE: Ile Ala 20 Ser Gln Thr Ile Pro 100	Homo 3 His 5 Gly Asn Asp Leu Tyr 85 Ile	Ile Leu Val Leu Phe 70 Tyr Ser	Gly Lys Arg Trp 55 Ala Ala Asn	Met Ala Ile 40 Thr Ala Ile His	Asn 25 Asp Thr Thr Ala Thr 105	10 Arg Lys Val Phe Phe 90 Pro	Pro Val Ile Val 75 Ile Cys	Arg Asp 60 Met His	Val Gly 45 Met Thr Gly Met	Met 30 Ile Lys Trp Asp	15 Ser Tyr Trp Phe Leu 95	Lys Leu Arg Leu 80 Glu Asp	
174 175 177 180 183 184 187 188 191 192 195 196 199 200 203 204 207 208	<21: <400 Met 1 Thr Ser Leu Tyr 65 Phe Pro	2> TY 3> OF 0> SF Asp Ala Gly Tyr 50 Lys Gly Asp	YPE: RGANI RGANI EQUEN Ala Gly His 35 Leu Val Glu Thr 115	PRT ISM: ICE: Ile Ala 20 Ser Gln Thr Ile Pro 100 Gly	Homo 3 His 5 Gly Asn Asp Leu Tyr 85 Ile	Ile Leu Val Leu Phe 70 Tyr Ser	Gly Lys Arg Trp 55 Ala Ala Asn Leu	Met Ala Ile 40 Thr Ala Ile His	Asn 25 Asp Thr Thr Ala Thr 105 Ser	10 Arg Lys Val Phe 90 Pro Leu	Pro Val Ile Val 75 Ile Cys Glu	Arg Asp 60 Met His Ile Ser	Val Gly 45 Met Thr Gly Met Gln 125	Met 30 Ile Lys Trp Asp Lys 110 Thr	15 Ser Tyr Trp Phe Leu 95 Val	Lys Leu Arg Leu 80 Glu Asp Ile	
174 175 177 180 183 184 187 188 191 192 195 196 200 203 204 207 208 211	<21: <400 Met 1 Thr Ser Leu Tyr 65 Phe Pro Ser Gly	2> TY 3> OI 0> SI Asp Ala Gly Tyr 50 Lys Gly Asp Leu	YPE: RGANI RGANI EQUEN Ala Gly His 35 Leu Val Glu Thr 115	PRT ISM: ICE: Ile Ala 20 Ser Gln Thr Ile Pro 100 Gly	Homo 3 His 5 Gly Asn Asp Leu Tyr 85 Ile	Ile Leu Val Leu Phe 70 Tyr Ser	Gly Lys Arg Trp 55 Ala Ala Asn Leu Ile	Met Ala Ile 40 Thr Ala Ile His	Asn 25 Asp Thr Thr Ala Thr 105 Ser	10 Arg Lys Val Phe 90 Pro Leu	Pro Val Ile Val 75 Ile Cys Glu	Arg Asp 60 Met His Ile Ser Pro	Val Gly 45 Met Thr Gly Met Gln 125	Met 30 Ile Lys Trp Asp Lys 110 Thr	15 Ser Tyr Trp Phe Leu 95 Val	Lys Leu Arg Leu 80 Glu Asp Ile	
174 175 177 180 183 184 187 188 191 192 195 196 200 203 204 207 208 211 212	<21: <400 Met 1 Thr Ser Leu Tyr 65 Phe Pro Ser Gly	2> TY 3> OI 0> SI Asp Ala Gly Tyr 50 Lys Gly Asp Leu Tyr 130	YPE: RGANI RGANI EQUEN Ala Gly His 35 Leu Leu Val Glu Thr 115 Gly	PRT (SM: ICE: Ile Ala 20 Ser Gln Thr Ile Pro 100 Gly Val	Homo 3 His 5 Gly Asn Asp Leu Tyr 85 Ile Ala Arg	Ile Leu Val Leu Phe 70 Tyr Ser Phe Ser	Gly Lys Arg Trp 55 Ala Ala Asn Leu Ile 135	Met Ala Ile 40 Thr Ala Ile His Phe 120 Thr	Asn 25 Asp Thr Thr Ala Thr 105 Ser	10 Arg Lys Val Phe Phe 90 Pro Leu Glu	Pro Val Ile Val 75 Ile Cys Glu Cys	Arg Asp 60 Met His Ile Ser Pro 140	Val Gly 45 Met Thr Gly Met Gln 125 His	Met 30 Ile Lys Trp Asp Lys 110 Thr	15 Ser Tyr Trp Phe Leu 95 Val Thr	Lys Leu Arg Leu 80 Glu Asp Ile Phe	
174 175 177 180 183 184 187 188 191 192 195 196 203 204 207 208 211 212 215	<213 <400 Met 1 Thr Ser Leu Tyr 65 Phe Pro Ser Gly Leu	2> TY 3> OI 0> SI Asp Ala Gly Tyr 50 Lys Gly Asp Leu Tyr 130	YPE: RGANI RGANI EQUEN Ala Gly His 35 Leu Leu Val Glu Thr 115 Gly	PRT (SM: ICE: Ile Ala 20 Ser Gln Thr Ile Pro 100 Gly Val	Homo 3 His 5 Gly Asn Asp Leu Tyr 85 Ile Ala Arg	Ile Leu Val Leu Phe 70 Tyr Ser Phe Ser Leu	Gly Lys Arg Trp 55 Ala Ala Asn Leu Ile 135	Met Ala Ile 40 Thr Ala Ile His Phe 120 Thr	Asn 25 Asp Thr Thr Ala Thr 105 Ser	10 Arg Lys Val Phe Phe 90 Pro Leu Glu	Pro Val Ile Val 75 Ile Cys Glu Cys Leu	Arg Asp 60 Met His Ile Ser Pro 140	Val Gly 45 Met Thr Gly Met Gln 125 His	Met 30 Ile Lys Trp Asp Lys 110 Thr	15 Ser Tyr Trp Phe Leu 95 Val	Lys Leu Arg Leu 80 Glu Asp Ile Phe	
174 175 177 180 183 184 187 188 191 192 203 204 207 208 211 212 215 216	<213 <400 Met 1 Thr Ser Leu Tyr 65 Phe Pro Ser Gly Leu 145	2> TY 3> OI 0> SI Asp Ala Gly Tyr 50 Lys Gly Asp Leu Tyr 130 Leu	YPE: RGANI RGANI EQUEN Ala Gly His 35 Leu Val Glu Thr 115 Gly Val	PRT (SM: ICE: Ile Ala 20 Ser Gln Thr Ile Pro 100 Gly Val Ala	Homo 3 His 5 Gly Asn Asp Leu Tyr 85 Ile Ala Arg	Ile Leu Val Leu Phe 70 Tyr Ser Phe Ser Leu 150	Gly Lys Arg Trp 55 Ala Ala Asn Leu Ile 135 Val	Met Ala Ile 40 Thr Ala Ile His Phe 120 Thr	Asn 25 Asp Thr Thr Ala Thr 105 Ser Glu Thr	10 Arg Lys Val Phe 90 Pro Leu Glu Thr	Pro Val Ile Val 75 Ile Cys Glu Cys Leu 155	Arg Asp 60 Met His Ile Ser Pro 140 Ile	Val Gly 45 Met Thr Gly Met Gln 125 His	Met 30 Ile Lys Trp Asp Lys 110 Thr	15 Ser Tyr Trp Phe Leu 95 Val Thr	Lys Leu Arg Leu 80 Glu Asp Ile Phe Ile 160	

Input Set : A:\A0852.70000US01 seq.txt
Output Set: N:\CRF4\09132006\J591628.raw

220		_	_		165			_	_	170		_			175		
	Thr	Ile	Lys		Ser	His	Cys	Ala		Ile	Thr	Lys	Gln		Gly	Lys	
224				180	_	_	_	_	185					190		_	
227	Leu	Cys	Leu	Val	Ile	Gln	Val		Asn	Met	Arg	Lys	Ser	Leu	Leu	Ile	
228			195					200					205				
231	Gln	Cys	Gln	Leu	Ser	Gly	Lys	Leu	Leu	Gln	Thr	His	Val	Thr	Lys	Glu	
232		210					215					220					
235	Gly	Glu	Arg	Ile	Leu	Leu	Asn	Gln	Ala	Thr	Val	Lys	Phe	His	Val	Asp	
236	225					230					235					240	
239	Ser	Ser	Ser	Glu	Ser	Pro	Phe	Leu	Ile	Leu	Pro	Met	Thr	Phe	Tyr	His	
240					245					250					255		
243	Val	Leu	Asp	Glu	Thr	Ser	Pro	Leu	Arg	Asp	Leu	Thr	Pro	Gln	Asn	Leu	
244				260					265					270			
247	Lys	Glu	Lys	Glu	Phe	Glu	Leu	Val	Val	Leu	Leu	Asn	Ala	Thr	Val	Glu	
248			275					280					285				
249	Ser	Thr	Ser	Ala	Val	Cys	Gln	Ser	Arg	Thr	Ser	Tyr	Ile	Pro	Glu	Glu	
250		290					295					300					
253	Ile	Tyr	Trp	Gly	Phe	Glu	Phe	Val	Pro	Val	Val	Ser	Leu	Ser	Lys	Asn	
254	305	_	_	_		310					315					320	
257	Gly	Lys	Tyr	Val	Ala	Asp	Phe	Ser	Gln	Phe	Glu	Gln	Ile	Arg	Lys	Ser	
258	•	-	•		325	-				330				-	335		
261	Pro	Asp	Cys	Thr	Phe	Tyr	Cys	Ala	Asp	Ser	Glu	Lys	Gln	Gln	Leu	Glu	
262		-	•	340		-	-		345			-		350			
265	Glu	Lys	Tyr	Arq	Gln	Glu	Asp	Gln	Arq	Glu	Arq	Glu	Leu	Arq	Thr	Leu	
266		. 2	355	,				360			,		365	-			
	Leu	Leu		Gln	Ser	Asn	Val										
270		370					375										
	<21	)> SI	EO II	ON C	: 4												
		l> LI															
		2> T															
					Homo	sar	oiens	3									
		)> FI				1											
		1> NA			CDS												
						1)	(166	7)									
		0> SI				-,	(200	, ,									
						ra do	ימכמו	radeo	~ tta	יככמנ	זכמכ	caai	raaa	ata d	atci	ttggga	60
		-		-		_		-						-		ctctgt	120
			-	_			_									tctctg	180
						_		_			_	_		_	_	gaacca	240
		-	-			_	-	-	-	~	_	_	-			ccgaac	300
																cagaag	360
																	413
295 296	caci	-yyaç	gee (	Judg	Juago	aa y										ac agc	413
								. U.	ry St	-T 4		- y	II A	эн <i>Н</i> .	-9 -)	yr Ser 10	
297		~+ ~		+ ~ ~	~	~ ~ ~	1	~~+			5	~~~	200	- +	~~~		461
							gac										461
	тте	val	ser	ser		GIU	Asp	GTÅ	met	_	ьeu	ATG	TUL	met		val	
301				<b>L</b> L L	15				- A A	20			<b>.</b>		25		F 0 0
							ggg										509
304	Ala	Asn	GLY	Pne	Gly	Asn	Gly	ьys	ser	ьys	val	His	Thr	Arg	GIn	GIN	

Input Set : A:\A0852.70000US01 seq.txt
Output Set: N:\CRF4\09132006\J591628.raw

. . . . .

305				30					35					40			
	tgc	agg	age		ttt	ata	aaq	aaa		aac	cac	tat	aat		cad	ttc	557
	Cys		_	_		-	_		_			_		_	_		33,
309	Cys	*****	45	**** 9		•	_,5	50	1155	O <sub>T</sub>	*****	Cyb	55	· u 1	0111	1110	
	atc	aat		aat	gag	aaα	aaa		caa	tac	ctc	aca		atc	ttc	acc	605
	Ile																003
313	110	60		027	0	_,.	65	01	9	-1-	<b></b> cu	70	7.55	110	1110		
	acg		ata	gac	att	cac		caa	taa	ato	cta		atc	ttc	tac	cta	653
	Thr																033
317		cys	• • • •	1101	110	80		**** 9	115	1100	85	Val	110	1110	Cyb	90	
	gct	ttc	atc	cta	tca		cta	+++	+++	aac		ata	+++	taa	tta		701
	Ala																, 01
321	1114	1110		200	95	111	Lcu	1110		100	Cyb	• • • •			105	110	
	gct	cta	ata	cat		gac	cta	gat	aca		aaa	gag	aac	aaa		tat	749
	Ala	_				-	_	-	_						-	-	, 13
325				110	011	шр		шр	115	001		O_u	017	120		O J D	
	gtg	tcc	αaα		aac	agc	ttc	acq		acc	ttc	ctc	ttc		att	gag	797
	Val																
329			125					130					135				
	acc	caq		acc	ata	aac	tat		ttc	aga	tat	atc		gat	σaa	tac	845
	Thr																
333		140				- 4	145	2			- 4	150	-	<u>-</u> -		4	
335	cca	att	act	att	ttc	atq	ata	ata	ttc	caq	tca	atc	ata	aac	tac	atc	893
	Pro																
	155					160					165			•	-	170	
339	atc	gat	gct	ttc	atc	att	qqc	qca	qtc	atq	qcc	aaq	atq	qca	aaq	cca	941
	Ile																
341		-			175		-			180		_			185		
343	aag	aag	aga	aac	gag	act	ctt	gtc	ttc	agt	cac	aat	gcc	gtg	att	gcc	989
	Lys	_	_					_		_			_	_		-	
345	_			190					195					200			
347	atg	aga	gac	ggc	aag	ctg	tgt	ttg	atg	tgg	cga	gtg	ggc	aat	ctt	cgg	1037
348	Met	Arg	Asp	Gly	Lys	Leu	Cys	Leu	Met	Trp	Arg	Val	Gly	Asn	Leu	Arg	
349			205					210					215				
351	aaa	agc	cac	ttg	gtg	gaa	gct	cat	gtt	cga	gca	cag	ctc	ctc	aaa	tcc	1085
352	Lys	Ser	His	Leu	Val	Glu	Ala	His	Val	Arg	Ala	Gln	Leu	Leu	Lys	Ser	
353		220					225					230					
355	aga	att	act	tct	gaa	ggg	gag	tat	atc	cct	ctg	gat	caa	ata	gac	atc	1133
356	Arg	Ile	Thr	Ser	Glu	Gly	Glu	Tyr	Ile	Pro	Leu	Asp	Gln	Ile	Asp	Ile	
357	235					240					245					250	
	aat																1181
360	Asn	Val	Gly	Phe	Asp	Ser	Gly	Ile	Asp	_	Ile	Phe	Leu	Val	Ser	Pro	
361					255					260					265		
	atc			-		_		-	_	-	_				-	-	1229
	Ile	Thr	Ile		His	Glu	Ile	Asp		Asp	Ser	Pro	Leu	_	Asp	Leu	
365				270					275					280			
	agt																127 <b>7</b>
	Ser	Lys		Asp	Ile	Asp	Asn		Asp	Phe	Glu	Ile		Val	Ile	Leu	
369			285					290					295				

VERIFICATION SUMMARYDATE: 09/13/2006PATENT APPLICATION: US/10/591,628TIME: 11:11:48

Input Set : A:\A0852.70000US01 seq.txt
Output Set: N:\CRF4\09132006\J591628.raw

. . . .

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number